

N° 2396



A.D. 1901

*Date of Application, 4th Feb., 1901*

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PROVISIONAL SPECIFICATION.

**“Improvements in Apparatus to be Employed in Injecting Gas, for Curative Antiseptic, or analogous purposes”**

We, AËRATORS LIMITED of Broad Street Avenue, in the City of London, do hereby declare the nature of this invention (which has been communicated to us from abroad by Emile Sterné of 8 Rue Mogador Prolongée, Paris, in the Republic of France; Engineer,) to be as follows:—

5 This invention consists in improved apparatus for injecting gas, for curative, antiseptic, or analogous, purposes.

Apparatus constructed in accordance with this invention consists of a chamber which will receive a capsule, or container, of compressed gas, and means whereby the said capsule, or container, can be forced against a piercing, or opening  
10 device mounted at one end of the said chamber, and held in position by a retaining nut screwed into the chamber so as to bear on the head of the piercing, or opening device, or in other convenient manner. Surrounding the end of the said piercer, and acting as an abutment or receiver for the mouth of the capsule, or container, is a ring situated in a recess in the chamber. A channel through  
15 the piercer, or opener, communicates with a channel communicating with a flexible tube and ball, or collapsible reservoir, the entrance to which is provided with a non-return valve. To the said tube is also attached an injecting nozzle provided with a tap. The pressure to pierce the capsule, or container, may be applied by means of a lever bearing on the said capsule, or container, the  
20 chamber being furnished with a horn, projecting alongside the said lever, so that by grasping the lever and horn, the lever is caused to press upon the capsule, or container; or the chamber may be made in two parts screwed together the upper part being provided with wings to allow of its being conveniently turned so as to screw it down on the other part and so press the capsule, or container,  
25 onto the piercer, or opener. By these, or equivalent, means the capsule, or container, is forced upon the piercer or opener, so that the capsule or container is opened, and the gas, under pressure, passes therefrom into the flexible ball, or collapsible reservoir, from which it can be forced through the injection nozzle when required by opening the tap between the said ball, or reservoir, and  
30 nozzle and compressing the said ball or reservoir.

A pressure gauge may be placed between the said tap and the injection nozzle.

Dated this 4th day of February 1901.

JOHNSONS & WILLCOX,  
47 Lincolns Inn Fields,  
London, W.C.,  
Agents.



*Apparatus to be Employed in Injecting Gas for Curative, &c., purposes.*

## COMPLETE SPECIFICATION.

**“Improvements in Apparatus to be Employed in Injecting Gas for Curative, Antiseptic, or analogous, purposes”**

We, AËRATORS LIMITED of Broad Street Avenue, in the City of London, do hereby declare the nature of this invention (which has been communicated to us from abroad by Emile Sterné of 8 Rue Mogador Prolongée, Paris, in the Republic of France, Engineer,) and in what manner the same is to be performed, to be particularly described and ascertained in and by the following 5 statement:—

This invention consists in improved apparatus for injecting gas, for curative, antiseptic, or analogous, purposes.

We will describe this invention with reference to the accompanying drawing on which Figure 1 is a vertical section and Figure 2 is an elevation partly in 10 section, the two figures shewing different arrangements of the device for effecting the release of the gas.

The apparatus consists of a chamber A which will receive a capsule, or container, C, of compressed gas, and means whereby the said capsule, or container, can be forced against a perforated piercing, or opening, device B mounted 15 at one end of the said chamber and held in position by a retaining nut D screwed into the chamber so as to bear on the head of the piercing, or opening, device, or in other convenient manner. Surrounding the end of the said piercer and acting as an abutment, or receiver, for the mouth of the capsule, or container, is a flexible ring E situated in a recess in the chamber. The perforation through 20 the piercer, or opener, B, communicates with a channel F communicating with a flexible tube G and ball, or collapsible reservoir G<sup>2</sup>, the entrance to which is provided with a non-return valve H. To the said tube is also attached an injecting nozzle provided with a tap. In the arrangement shewn, the injecting nozzle I is attached by a flexible tube J with the body K of the tap K<sup>2</sup>, the said 25 body being attached to the tube G. The pressure to pierce the capsule, or container, C, may be applied in any convenient way, for example, as shewn in Figure 2 by means of a lever L centred at L<sup>2</sup> and bearing on the said capsule, or container, C, the chamber A being furnished with a horn M projecting alongside the said lever, so that by grasping the lever and horn, the lever is caused to 30 press upon the capsule, or container; or the chamber may be made in two parts screwed together, as shewn in Figure 1, the upper part N being provided with wings N<sup>2</sup> to allow of its being conveniently turned so as to screw it down on the other part and so press the capsule, or container, onto the piercer, or opener. P are wings on the lower part for holding it whilst operating the upper part. 35 By these, or equivalent, means, the capsule, or container, is forced upon the piercer, or opener, so that the capsule, or container, is opened, and the gas under pressure passes therefrom past the valve H into the flexible ball, or collapsible reservoir G<sup>2</sup>, from which it can be forced through the injection nozzle I when required by opening the tap K<sup>2</sup> between the said ball, or reservoir, and nozzle, 40 and compressing the said ball, or reservoir.

A pressure gauge may be placed between the said tap and the injection nozzle.

Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed, we declare that what we claim is: 45

1. A gas injecting apparatus consisting of, or comprising, a device for holding a capsule, or container of compressed gas, a collapsible bulb, or reservoir, with a non-return valve and an injection nozzle; substantially as hereinbefore described.

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*Apparatus to be Employed in Injecting Gas for Curative, &c., purposes.*

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2. A gas injecting apparatus consisting of, or comprising, a device for holding a capsule, or container, of compressed gas, a collapsible bulb, or reservoir, with a non-return valve, and an injection nozzle with means for controlling the passage of gas from the said bulb, or reservoir, to the said nozzle; substantially  
5 as hereinbefore described.

3. A gas injecting apparatus constructed as hereinbefore described and illustrated in Figure 1 of the accompanying drawings.

4. A gas injecting apparatus constructed as hereinbefore described and illustrated in Figure 2 of the accompanying drawings.

10 Dated this 4th day of November 1901.

JOHNSONS & WILLCOX,  
47 Lincolns Inn Fields,  
London, W.C.,  
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Fig. 1.

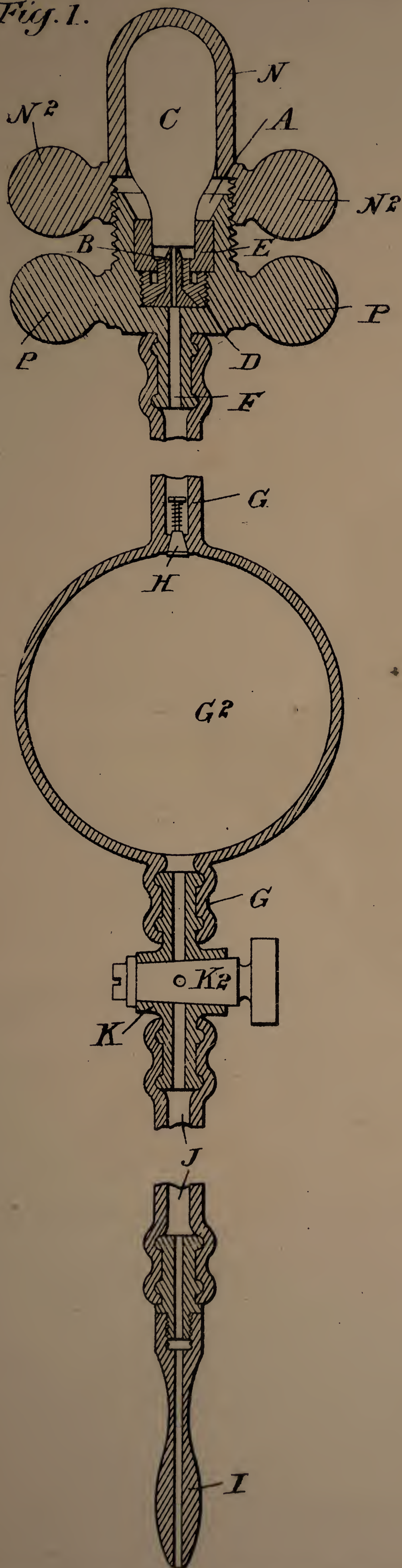
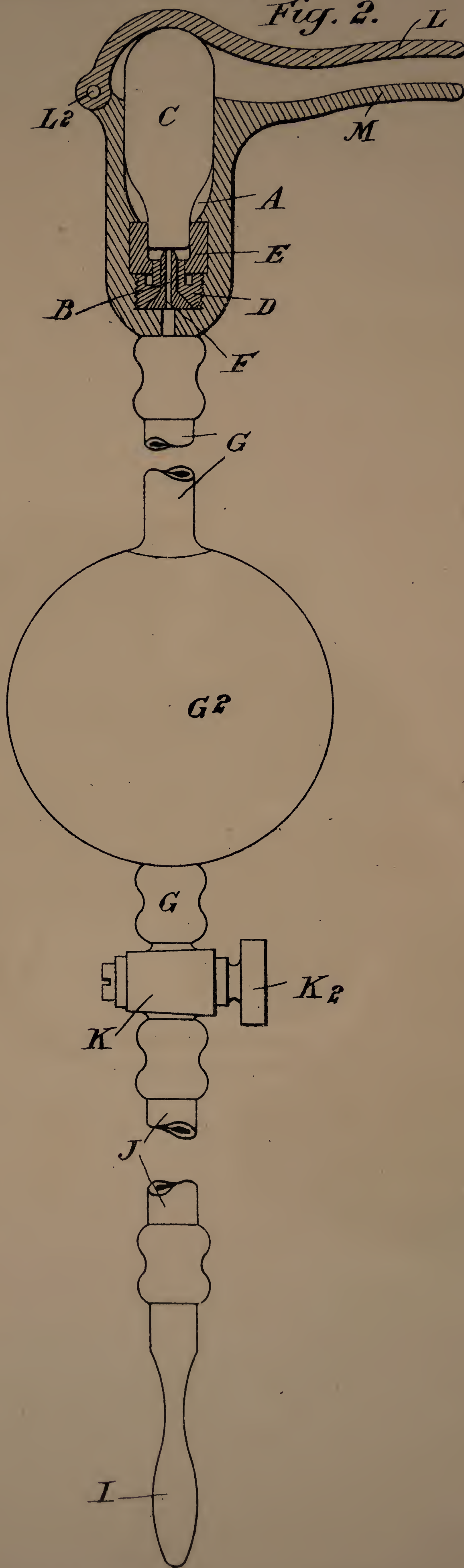


Fig. 2.



[This Drawing is a reproduction of the Original on a reduced scale.]

